

author index

Index of Issues: July, pp. 1-134; August, 135-270; September, 271-414; October, 415-558; November, 559-702; December, 703-846. Page numbers beginning with S denote articles in the October supplement.

A

Aguanno, James J., 735
 Ahmad, Ejaz, 200
 Alkan, Serhan, 599
 Al-Sader, Mohammed H., 753
 Alvarado, Carlos S., 575
 Amin, Mahul B., 782
 Angonin, Régis, 607
 Apple, Fred S., 241
 Arber, Daniel A., 143
 Aronica, Patricia, 210
 Austin, Eric D., 575
 Austin, Garth E., 575

B

Babe, Charissa, 210
 Bailey, David N., 491
 Bailly, Christiane, 719
 Banks, Peter M., 575
 Barnes, Leon, 137
 Béné, Marie C., 321
 Bernard, David W., 184
 Bernardi, Daniela, 334
 Bizzaro, Nicola, 178
 Blair, Abbe J., 673
 Borowitz, Michael J., 575
 Boyce, H. Worth, Jr., 615
 Brigden, M., 683
 Brody, Rachel L., 32
 Broët, Philippe, 607
 Bryant, Eileen M., 84
 Brynes, Russell K., 143
 Burg, Gunter, S84
 Burke, Jerome S., S40, S133
 Butch, Anthony W., 735

C

Cagle, Philip T., 191
 Camilleri-Broët, Sophie, 607
 Carroll, Andrew J., 575
 Caulet-Maugendre, Sylvie, 607

Chan, Alexander C. L., 347
 Chauvenet, Allen, 575
 Chen, Chunguang, 70
 Chen, Lianglong, 70
 Chen, Shu-Zhou, 743
 Cheung, Annie N. Y., 347
 Chott, Andreas, S68
 Choudhry, Umesh, 615
 Chung, Lap-Ping, 347
 Churg, Andrew, 191
 Cinenza, A. Noel, 622
 Clark, Raynell, 503
 Cnaan, Avital, 443
 Cochran, Alistair J., 719
 Colby, Thomas V., 135
 Collier, Joyce, 590
 Conner, David, 43
 Cook, Martin, 719
 Coppola, Domenico, 16, 615
 Cotelingham, James D., 590
 Crissman, John, 137
 Crotty, Kerry, 719
 Cualing, Hernani, 590
 Cuillière, Paulette, 607

D

Dasgupta, Amitava, 78
 De Angelis, Vincenzo, 178
 Debruyne, Frans M. J., 647
 Della-Latta, Phyllis, 301
 DeMay, Richard M., 423
 Depre, Christophe, 378
 Desablens, Bernard, 607
 De Toni, Stefania, 334
 Devaraj, Sridevi, 495
 De Young, Barry R., 224, 374
 Diebold, Jacques, S8
 Dodge, Richard R., 758
 Domen, Ronald E., 102
 Dorfman, David M., 465
 Drew, Peter A., 4
 Dubin, Stuart B., 723

Dumenco, Luba L., 673
 Dummer, Reinhard, S84

E

Eng, Sue, 32

F

Fallon, John T., 70
 Faure, Gilbert C., 321
 Feng, Yue-Jin, 70
 Finn, William G., 95, 341
 Fiorin, Francesco, 178
 Fischer, Steven H., 295
 Fitzgibbons, Patrick L., 569
 Fletcher, Christopher D. M., 660
 Flint, Andrew, 10
 Foucar, Kathy, 313
 Frierson, Henry F., 374
 Frizzera, Glauco, S13
 Frost, Jami D., 313
 Fruehauf, John P., 16
 Furihata, Kenichi, 368
 Furman, Jaime, 4
 Furuwatari, Chizumi, 368

G

Geisinger, Kim R., 50, 219, 653
 Genta, Robert M., 450
 Gill, Vee J., 295
 Giordano, Thomas J., 456
 Glenn, Patricia, 106
 Gnepp, Douglas R., 137
 Goldman, Jay, 43
 Goldstein, Neal S., 200, 357, 622, 765
 Gontier, Marie Francine, 607
 Gooley, Theodore, 84
 Goolsby, Charles L., 341
 Granter, Scott R., 635
 Grimes, Gary, 43

H

Hakami, Nasrollah, 575
 Hanak, Hanns, S68
 Hankin, Rebecca C., 200
 Harris, Nancy Lee, 163, S8, S94, S126
 Hartwell, Elizabeth A., 281
 Hauw, Jean-Jacques, 607
 Havaux, Xavier, 378
 Hayes, Donal P., 753
 Henderson, Douglas W., 397
 Hénin, Dominique, 607
 Hessels, Daphne, 647
 Hidaka, Eiko, 368
 Hirany, Shaina V., 495
 Ho, Faith C. S., 347
 Hogan, John M., 753
 Honda, Takayuki, 450
 Hsi, Eric D., 327, 599
 Huang, Jie-Fei, 743
 Huang, Zhong-Wei, 743
 Hubbard, R. Scott, 495
 Humphrey, Peter A., 471
 Hussain, Mujaba, 200
 Hussong, Jerry, 806

I

Ichinohasama, Ryo, 478
 Inghirami, Giorgio, S13
 Isaacson, Peter G., S75, S126
 Ishikawa, Izumi, 478
 Ishikawa, Masayo, 368
 Ito, Sadayoshi, 478
 Izban, Keith F., 599

J

Jaffe, Elaine S., S8, S46
 James, Catherine, 341
 Jamidar, Priya A., 569
 Jialal, Ishwarlal, 495
 Jirutek, Michael, 635

author index

Index of Issues: July, pp. 1-134; August, 135-270; September, 271-414; October, 415-558; November, 559-702; December, 703-846. Page numbers beginning with S denote articles in the October supplement.

A

Aguanno, James J., 735
 Ahmad, Ejaz, 200
 Alkan, Serhan, 599
 Al-Sader, Mohammed H., 753
 Alvarado, Carlos S., 575
 Amin, Mahul B., 782
 Angonin, Régis, 607
 Apple, Fred S., 241
 Arber, Daniel A., 143
 Aronica, Patricia, 210
 Austin, Eric D., 575
 Austin, Garth E., 575

B

Babe, Charissa, 210
 Bailey, David N., 491
 Bailly, Christiane, 719
 Banks, Peter M., 575
 Barnes, Leon, 137
 Béné, Marie C., 321
 Bernard, David W., 184
 Bernardi, Daniela, 334
 Bizzaro, Nicola, 178
 Blair, Abbe J., 673
 Borowitz, Michael J., 575
 Boyce, H. Worth, Jr., 615
 Brigden, M., 683
 Brody, Rachel L., 32
 Broët, Philippe, 607
 Bryant, Eileen M., 84
 Brynes, Russell K., 143
 Burg, Gunter, S84
 Burke, Jerome S., S40, S133
 Butch, Anthony W., 735

C

Cagle, Philip T., 191
 Camilleri-Broët, Sophie, 607
 Carroll, Andrew J., 575
 Caulet-Maugendre, Sylvie, 607

Chan, Alexander C. L., 347
 Chauvenet, Allen, 575
 Chen, Chunguang, 70
 Chen, Lianglong, 70
 Chen, Shu-Zhou, 743
 Cheung, Annie N. Y., 347
 Chott, Andreas, S68
 Choudhry, Umesh, 615
 Chung, Lap-Ping, 347
 Churg, Andrew, 191
 Cinenza, A. Noel, 622
 Clark, Raynell, 503
 Cnaan, Avital, 443
 Cochran, Alistair J., 719
 Colby, Thomas V., 135
 Collier, Joyce, 590
 Conner, David, 43
 Cook, Martin, 719
 Coppola, Domenico, 16, 615
 Cotelingham, James D., 590
 Crissman, John, 137
 Crotty, Kerry, 719
 Cualing, Hernani, 590
 Cuillière, Paulette, 607

D

Dasgupta, Amitava, 78
 De Angelis, Vincenzo, 178
 Debruyne, Frans M. J., 647
 Della-Latta, Phyllis, 301
 DeMay, Richard M., 423
 Depre, Christophe, 378
 Desablens, Bernard, 607
 De Toni, Stefania, 334
 Devaraj, Sridevi, 495
 De Young, Barry R., 224, 374
 Diebold, Jacques, S8
 Dodge, Richard R., 758
 Domen, Ronald E., 102
 Dorfman, David M., 465
 Drew, Peter A., 4
 Dubin, Stuart B., 723

Dumenco, Luba L., 673
 Dummer, Reinhard, S84

E

Eng, Sue, 32

F

Fallon, John T., 70
 Faure, Gilbert C., 321
 Feng, Yue-Jin, 70
 Finn, William G., 95, 341
 Fiorin, Francesco, 178
 Fischer, Steven H., 295
 Fitzgibbons, Patrick L., 569
 Fletcher, Christopher D. M., 660
 Flint, Andrew, 10
 Foucar, Kathy, 313
 Frierson, Henry F., 374
 Frizzera, Glauco, S13
 Frost, Jami D., 313
 Fruehauf, John P., 16
 Furihata, Kenichi, 368
 Furman, Jaime, 4
 Furuwatari, Chizumi, 368

G

Geisinger, Kim R., 50, 219, 653
 Genta, Robert M., 450
 Gill, Vee J., 295
 Giordano, Thomas J., 456
 Glenn, Patricia, 106
 Gnepp, Douglas R., 137
 Goldman, Jay, 43
 Goldstein, Neal S., 200, 357, 622, 765
 Gontier, Marie Francine, 607
 Gooley, Theodore, 84
 Goolsby, Charles L., 341
 Granter, Scott R., 635
 Grimes, Gary, 43

H

Hakami, Nasrollah, 575
 Hanak, Hanns, S68
 Hankin, Rebecca C., 200
 Harris, Nancy Lee, 163, S8, S94, S126
 Hartwell, Elizabeth A., 281
 Hauw, Jean-Jacques, 607
 Havaux, Xavier, 378
 Hayes, Donal P., 753
 Henderson, Douglas W., 397
 Hénin, Dominique, 607
 Hessels, Daphne, 647
 Hidaka, Eiko, 368
 Hirany, Shaina V., 495
 Ho, Faith C. S., 347
 Hogan, John M., 753
 Honda, Takayuki, 450
 Hsi, Eric D., 327, 599
 Huang, Jie-Fei, 743
 Huang, Zhong-Wei, 743
 Hubbard, R. Scott, 495
 Humphrey, Peter A., 471
 Hussain, Mujaba, 200
 Hussong, Jerry, 806

I

Ichinohasama, Ryo, 478
 Inghirami, Giorgio, S13
 Isaacson, Peter G., S75, S126
 Ishikawa, Izumi, 478
 Ishikawa, Masayo, 368
 Ito, Sadayoshi, 478
 Izbán, Keith F., 599

J

Jaffe, Elaine S., S8, S46
 James, Catherine, 341
 Jamidar, Priya A., 569
 Jialal, Ishwarlal, 495
 Jirutek, Michael, 635

Johnston, Elaine, 443
 Johnston, M., 683
 Judkins, Alexander R., 641

K

Kadin, Marshall E., S56
 Kadowaki, Ikuko, 478
 Kaissouni, Jamal El, 321
 Kameoka, Junichi, 478
 Kamoun, Malek, 797
 Karl, Richard C., 16
 Katsuyama, Tsutomu, 368, 450
 Katzmman, Jerry A., 503
 Kay, Elaine W., 753
 Kempf, Werner, S84
 Kennel, Anne De March, 321
 Keren, David F., 248
 Keshgegian, Albert A., 443
 Kilpatrick, Scott E., 50
 Kimura, Jun, 478
 Kinma, Douglas W., S46
 Kinney, Marsha C., S56, S104
 Kirkley, Barbara A., 150
 Knibbs, David R., 70
 Koch, David D., 735
 Kohler, Chantal, 321
 Kowal-Vern, Areta, 590
 Krasinskas, Alyssa M., 797
 Krenacs, Laszlo, S46
 Kroft, Steven H., 95
 Kujas, Michèle, 607
 Kumar, Shimareet, S46
 Kurtin, Paul J., S119
 Kutok, Jeffery L., 465
 Kyle, Robert A., 503
 Kyshtobayeva, Ainura, 16

L

Lacerna, Mario, 357
 Lai, Tianjie, 70
 Landers, James P., 503
 Langston, Claire, 450
 Layfield, Lester J., 758
 Leader, Mary B., 753
 Lefrancq, Thierry, 607
 Leith, Catherine P., 313
 Lemire, Susan J., 465
 Letendre, Louis, 154
 Li, Chin-Yang, 154
 Listinsky, Catherine M., 43, 425
 Listinsky, Jay J., 425
 Liu, Katharine, 758
 Liu, Paul, 776
 LiVolsi, Virginia A., 1, 641
 Loken, Michael R., 84
 Lu, Jian-Xin, 743
 Lu, Li, 16
 Lurie, Aubrey A., 735
 Ly, Micki N., 374

M

Madge, Rebecca, 635
 Mangano, William E., 191
 Mann, Risa B., S144
 Marras, Salvatore A. E., 647
 Martin, Antoine, 607
 Martin, Lani, 495
 Martinez, Alvaro, 765
 Mazzella, Fermina M., 590
 McCarthy, Stan, 719
 McClatchey, Kenneth, 788
 McClellan, Stan, 43
 McCormick, Stanley R., 227
 McDermott, Nuala C., 753
 McDonald, Jay M., 43
 Medeiros, L. Jeffrey, 143
 Medema, René H., 24
 Meguro, Kuniaki, 478
 Melamed, Jonathan, 32
 Meng, Xian-Yong, 743
 Mentzel, Thomas, 660
 Michael, Claire W., 10, 456
 Michalides, Rob J., 647
 Mihm, Martin C., 719, 788
 Mikhael, Anwar, 590
 Miller, Michael L., 150
 Miura, Ikuo, 478
 Mizrachi, Howard, 32
 Mokhtari, Karima, 607
 Molé, Claire, 321
 Mongkonsitragoon, Wichan, 154
 Montone, Kathleen T., 641
 Mooi, Walter, 719
 Mooney, Eoghan E., 758
 Moore, Jonni, 797
 Morcos, Mohib, 607
 Moreau, Anne, 607
 Mosberger, Isabella, S68
 Muller-Hermelink, Hans-Konrad, S8
 Murakami, MaryAnn M., 241
 Murata-Collins, Joyce L., 143
 Murphy, William M., 4
 Myerson, David, 84

N

Narayan, Perinchery, 4
 Nawrocki, John F., 599
 Nguyen, Phuong L., 163
 Nichols, Larry, 210
 Nickoloff, Brian, 788
 Nicosia, Santo V., 16
 Niemann, Theodore H., 224

O

Ogiso, Yoshifumi, 368
 Olszak, Iwona, 163
 Ooya, Kiyoshi, 478
 Ordóñez, Nelson G., 385

Ostrzega, Nora, 776
 O'Sullivan, Maureen J., 471
 Ota, Hiroyoshi, 450

P

Parupia, Joseph, 495
 Paulson, William D., 735
 Perez-Reyes, Nuria, 200
 Peters, Avis A., 227
 Peterson, Lance R., 806
 Peterson, LoAnn C., 341, 806
 Peterson, Powers, 106
 Phillipson, Julia, 776
 Plebani, Mario, 334
 Potenza, Rocco, 178
 Pradella, Paola, 178
 Prayson, Richard A., 629
 Preffer, Frederic L., 163

Q

Qian, Junqi, 154

R

Raab, Stephen S., 219, 391, 653
 Raffeld, Mark, S46
 Raphaël, Martine, 607
 Rector, James T., 590
 Reddy, Vishnu, 43
 Renshaw, Andrew A., 38, 635
 Ricchiuti, Vincent, 241
 Rice, Lori, 4
 Rijkse, Gert, 24
 Rimsza, Lisa M., 313
 Ritter, Jon H., 471
 Roberts, William L., 735
 Roggli, Victor L., 191
 Roma, Agatha O., 465
 Rosborough, Terry K., 173
 Ross, Charles W., 95, 327, 582
 Ross, Jeffrey S., 788
 Rousselet, Marie Christine, 607

S

Sagebiel, Richard, 719
 Sale, George E., 84
 Salhany, Kevin E., 797
 Sanders, Elizabeth, 503
 Sanzari, Maria Colomba, 334
 Sarda, Marie N. Kolopp, 321
 Saria, Elizabeth, 758
 Sasaki, Osamu, 478
 Sazama, Kathleen, 184
 Schalken, Jack A., 647
 Schneider, Robert J., 32
 Schnitzer, Bertram, 95, 327, 582
 Schrauth, John B., 227
 Schretzenmair, Richard, 797

Schumacher, Harold R., 590
 Scott, Jerry, 78
 Sharkey, Scott W., 241
 Sheldon, Susan, 95
 Shen, Dan-Hua, 347
 Sheppard, Elizabeth A., 219
 Shilkin, Keith B., 397
 Shrit, M. Atef, 590
 Shulman, Howard M., 84
 Siegal, Gene P., 43, 425
 Siegel, Jamie E., 106, 184
 Silverman, Jan F., 653
 Simonitsch, Ingrid, S68
 Singleton, Timothy P., 95, 327, 582
 Slominski, Andrzej, 788
 Sloodweg, Pieter J., 24
 Smith, David, 374
 Stanley, Michael W., 653
 Steffan, Agostino, 178
 Stock, Frida, 295
 Stockreiter, Elisabeth, 334
 Stromberg, Jannifer, 765
 Svoboda, Suzette M., 327
 Swami, Vanlila K., 106, 184
 Swanson, Paul E., 279, 374
 Sweeney, Joseph D., 673
 Swerdlow, Steven H., S7

T

Takahashi, Shinichiro, 478
 Tanaka, Misako, 478
 Teot, Lisa A., 219
 Teperman, Lewis W., 32
 Theise, Neil D., 32
 Thomas, Patricia A., 653
 Tickoo, Satish K., 782
 Tobias, Hillel, 32
 Tomaszewski, John E., 1
 Tomiya, Yasuo, 478
 Tranovich, Jason G., 224
 Tworek, Joseph A., 456, 582

U

Ueno, Ichiro, 368

V

Van de Kaa, Christina A., 647
 Van de Rijn, Matt, 641
 Van der Poel, Henk G., 647
 Van Oijen, Monique G. C. T., 24
 Vasef, Mohammad A., 143
 Vaughn, Greg, 43
 Vesely, Michael, S68
 Vet, Jacqueline A. M., 647
 Vicini, Frank, 357, 765
 Viswanatha, David S., 313
 Volk, Emily E., 150

Vollmer, Robin T., 191
Voss, Ellen M., 241

W

Walsh, Caitriona Barry, 753
Warren, John R., 806
Washington, John A., 150
Wasik, Mariusz A., 797
Waters, David D., 70
Weir, Susan C., 295

Wells, Denise A., 84
Whitaker, Darrel, 397
Whittier, Susan, 301
Wibowo, A. Luke, 590
Wick, Mark R., 471, 713
Wijns, William, 378
Winokur, Thomas S., 43
Winter, Stuart S., 313
Wortsman, Jacobo, 788
Wu, Alan H. B., 70
Wu, Daniel, S13

X

Xiao, Ming-Bing, 743
Xu, Wei-Sheng, 347

Y

Yagi, Asako, 368
Yamada, Minami, 478
Yamagami, Osamu, 368
Yao, Deng-Fu, 743
Yeatman, Timothy J., 16

Z

Zarbo, Richard, 137
Zhang, You, 347
Zhao, Wei-Guo, 575

title index

Index of Issues: July, pp.1-134; August, 135-270; September, 271-414; October, 415-558; November, 559-702; December, 703-846. Page numbers beginning with S denote articles in the October supplement.

ANATOMIC PATHOLOGY

Original Articles

- Analysis of p53, p21^{WAF1}, and TGF- β 1 in Human Ductal Adenocarcinoma of the Pancreas: TGF- β 1 Protein Expression Predicts Longer Survival
Domenico Coppola, Li Lu, John P. Fruehauf, Ainura Kyshoobayeva, Richard C. Karl, Santo V. Nicosia, and Timothy J. Yeatman, 16
- Are Autopsies Obsolete?
Larry Nichols, Patricia Aronica, and Charissa Babe, 210
- Bcl-2 Oncoprotein Positivity and High MIB-1 (Ki-67) Proliferative Rate Are Independent Predictive Markers for Recurrence in Prostate Carcinoma
Albert A. Keshgegian, Elaine Johnston, and Avital Cnaan, 443
- Bile Duct Brushing Cytology: Statistical Analysis of Proposed Diagnostic Criteria
Andrew A. Renshaw, Rebecca Madge, Michael Jiroutek, and Scott R. Granter, 635
- Biopsy Bag Artifact
Theodore H. Niemann, Jason G. Tranovich, and Barry R. De Young, 224
- Cancerization of Lobules and Atypical Ductal Hyperplasia Adjacent to Ductal Carcinoma In Situ of the Breast: Significance for Breast-Conserving Therapy
Neal S. Goldstein, Mario Lacerna, and Frank Vicini, 357
- CD31 Immunoreactivity in Carcinomas and Mesotheliomas
Barry R. De Young, Henry F. Frierson, Jr, Micki N. Ly, David Smith, and Paul E. Swanson, 374
- Comparison of Intraoperative Cytology With Frozen Sections in the Diagnosis of Thyroid Lesions
Joseph A. Tworek, Thomas J. Giordano, and Claire W. Michael, 456
- Comparative Analysis of p53 Mutations in Bladder Washings and Histologic Specimens
Jacqueline A. M. Vet, Daphne Hessels, Salvatore A. E. Marras, Christina A. van de Kaa, Henk G. van der Poel, Rob J. Michalides, Frans M. J. Debruyne, and Jack A. Schalken, 647
- Comprehensive System to Explore p53 Mutations, A
Chizumi Furuwatari, Asako Yagi, Osamu Yamagami, Masayo Ishikawa, Eiko Hidaka, Ichiro Ueno, Kenichi Furihata, Yoshifumi Ogiso, and Tsutomu Katsuyama, 368
- Correlation of Gross Morphologic Features With Histologic Features in Radical Prostatectomy Specimens
Andrew A. Renshaw, 38
- Cost-Effectiveness of Routine Histologic Examination, The
Stephen S. Raab, 391
- Cyclin D1 and MIB-1 Immunohistochemistry in Ependymomas: A Study of 41 Cases
Richard A. Prayson, 629
- Cytologic Features of Wegener's Granulomatosis, The
Claire W. Michael and Andrew Flint, 10
- Diagnosis of Desmoplastic Malignant Mesothelioma and Its Distinction From Fibrous Pleurisy, The: A Histologic and Immunohistochemical Analysis of 31 Cases Including p53 Immunostaining
William E. Mangano, Philip T. Cagle, Andrew Churg, Robin T. Vollmer, and Victor L. Roggli, 191
- Discriminant Nuclear Features of Renal Oncocytoma and Chromophobe Renal Cell Carcinoma: Analysis of Their Potential Utility in the Differential Diagnosis
Satish K. Tickoo and Mahul B. Amin, 782
- Endocervical Glandular Atypia: Does a Preneoplastic Lesion of Adenocarcinoma In Situ Exist?
Neal S. Goldstein, Ejaz Ahmad, Mujaba Hussain, Rebecca C. Hankin, and Nuria Perez-Reyes, 200
- Flow Cytometric DNA Analysis With Cytokeratin Gating of Formalin-Fixed Deparaffinized Breast Cancer Nuclei
Stanley R. McCormick, Avis A. Peters, and John B. Schrauth, 227
- Histochemical Analysis of Mucous Cells of Congenital Adenomatoid Malformation of the Lung: Insights Into the Carcinogenesis of Pulmonary Adenocarcinoma Expressing Gastric Mucins
Hiroyoshi Ota, Claire Langston, Takayuki Honda, Tsutomu Katsuyama, and Robert M. Genta, 450
- Histology of Radiation Therapy Effect on Prostate Adenocarcinoma as Assessed by Needle Biopsy After Brachytherapy Boost, The: Correlation With Biochemical Failure
Neal S. Goldstein, Alvaro Martinez, Frank Vicini, and Jannifer Stromberg, 765

- Histopathologic Practices for Esophageal Biopsy Specimens: Survey Results and Implications for Surveillance in Patients With Barrett's Esophagus
Kim R. Geisinger, Elizabeth A. Sheppard, Lisa A. Teot, and Stephen S. Raab, 219
- Histopathology of Nonsteroidal Anti-inflammatory Drug-Associated Colitis, The
Neal S. Goldstein and A. Noel Cinenza, 622
- Identification of Vertical Growth Phase in Malignant Melanoma: A Study of Interobserver Agreement
Nuala C. McDermott, Donal P. Hayes, Mohammed H. Al-Sader, John M. Hogan, Caitriona Barry Walsh, Elaine W. Kay, and Mary B. Leader, 753
- Immunohistochemical Detection of Hepatitis C Antigen by Monoclonal Antibody TORDJI-22 Compared With PCR Viral Detection
Rachel I. Brody, Sue Eng, Jonathan Melamed, Howard Mizrahi, Robert J. Schneider, Hillel Tobias, Lewis W. Teperman, and Neil D. Theise, 32
- Initial Trial of a Prototype Telepathology System Featuring Static Imaging With Discrete Control of the Remote Microscope, An
Thomas S. Winokur, Stan McClellan, Gene P. Siegal, Vishnu Reddy, Catherine M. Listinsky, David Conner, Jay Goldman, Gary Grimes, Greg Vaughn, and Jay M. McDonald, 43
- Interobserver Variability of a Papanicolaou Smear Diagnosis of Atypical Glandular Cells of Undetermined Significance
Stephen S. Raab, Kim R. Geisinger, Jan F. Silverman, Patricia A. Thomas, and Michael W. Stanley, 653
- Pathology of Restenosis in Saphenous Bypass Grafts After Long-Term Stent Implantation
Christophe Depre, Xavier Havaux, and William Wijns, 378
- Positivity of the Proliferation Marker Ki-67 in Noncycling Cells
Monique G.C.T. van Oijen, René H. Medema, Pieter J. Slootweg, and Gert Rijksen, 24
- Proliferative Activity in Placentas With Hydropic Change and Hydatidiform Mole as Detected by Ki-67 and Proliferating Cell Nuclear Antigen Immunostaining
Nora Ostrzega, Julia Phillipson, and Paul Liu, 776
- Prostatectomy Tissue for Research: Balancing Patient Care and Discovery
Jaime Furman, William M. Murphy, Lori Rice, Peter A. Drew, and Perinchery Narayan, 4
- Proton Pump Inhibitor-Associated Gastric Polyps: A Retrospective Analysis of Their Frequency, and Endoscopic, Histologic, and Ultrastructural Characteristics
Umesh Choudhry, H. Worth Boyce, Jr, and Domenico Coppola, 615
- Sensitivity and Specificity of Antibodies on Necrotic Tumor Tissue
Alexander R. Judkins, Kathleen T. Montone, Virginia A. LiVolsi, and Matt van de Rijn, 641
- Thrombomodulin Expression in Transitional Cell Carcinoma
Nelson G. Ordóñez, 385
- Tissue Heterogeneity of Immunohistochemically Detected Estrogen Receptor: Implications for Image Analysis Quantification
Lester J. Layfield, Elizabeth Saria, Eoghan E. Mooney, Katharine Liu, and Richard R. Dodge, 758
- Review Articles**
- Molecular Pathology of Malignant Melanoma
Andrzej Slominski, Jacobo Wortsman, Brian Nickoloff, Kenneth McClatchey, Martin C. Mihm, and Jeffrey S. Ross, 788
- Reactive Mesothelial Hyperplasia vs Mesothelioma, Including Mesothelioma In Situ: A Brief Review
Douglas W. Henderson, Keith B. Shilkin, and Darrel Whitaker, 397
- Recent Advances in Soft Tissue Tumor Diagnosis: Invited Review
Thomas Mentzel and Christopher D. M. Fletcher, 660
- Soft Tissue Sarcomas: The Usefulness and Limitations of Fine-Needle Aspiration Biopsy
Scott E. Kilpatrick and Kim R. Geisinger, 50
- CLINICAL CHEMISTRY**
- Original Articles**
- Cardiac Troponin I and T Alterations in Dog Hearts With Myocardial Infarction: Correlation With Infarct Size
Vincent Ricchiuti, Scott W. Sharkey, MaryAnn M. Murakami, Ellen M. Voss, and Fred S. Apple, 241
- Cocaine and Cocaethylene Binding to Human Milk
David N. Bailey, 491
- Comparison of Cardiac Troponin I, Creatine Kinase-MB, and Myoglobin for Detection of Acute Ischemic Myocardial Injury in a Swine Model
Yue-Jin Feng, Chunguang Chen, John T. Fallon, Tianjie Lai, Lianglong Chen, David R. Knibbs, David D. Waters, and Alan H. B. Wu, 70
- Diagnosis of Hepatocellular Carcinoma by Quantitative Detection of Hepatoma-Specific Bands of Serum γ -Glutamyltransferase
Deng-Fu Yao, Zhong-Wei Huang, Siu-Zhou Chen, Jie-Fei Huang, Jian-Xin Lu, Ming-Bing Xiao, and Xian-Yong Meng, 743
- Evaluation of a Rapid Homogeneous Method for Direct Measurement of High-Density Lipoprotein Cholesterol
R. Scott Hubbard, Shaina V. Hirany, Sridevi Devaraj, Lani Martin, Joseph Parupia, and Ishwarlal Jialal, 495
- Prospective Study of Serum Protein Capillary Zone Electrophoresis and Immunotyping of Monoclonal Proteins by Immunosubtraction
Jerry A. Katzmman, Raynell Clark, Elizabeth Sanders, James P. Landers, and Robert A. Kyle, 503
- Unexpected Suppression of Total Digoxin Concentrations by Cross-Reactants in the Microparticle Enzyme Immunoassay: Elimination of Interference by Monitoring Free Digoxin Concentration
Amitava Dasgupta and Jerry Scott, 78

Wide Variation in Serum Anion Gap Measurements by Chemistry Analyzers

William D. Paulson, William L. Roberts, Aubrey A. Lurie,
David D. Koch, Anthony W. Butch, and James J.
Aguanno, 735

Review Articles

Capillary Zone Electrophoresis in the Evaluation of Serum Protein Abnormalities

David F. Keren, 248

COAGULATION AND TRANSFUSION MEDICINE

Original Articles

Autologous Blood Donation by Patients Who Have Undergone Solid Organ Transplantation

Ronald E. Domen, 102

Comparing Different Lots of Activated Partial Thromboplastin Time Reagent: Analysis of Two Methods

Terry K. Rosborough, 173

Cross-Canada Survey of Prothrombin Time Testing. A: Does the Establishment of Local ISI Values Improve the Accuracy of International Normalized Ratio Reporting?

M. Johnston and M. Bridgen for the Thrombosis Interest Group of Canada, 683

Effect (or Lack of It) of Severe Anemia on PT and APTT Results

Jamie E. Siegel, Vanlila K. Swami, Patricia Glenn, and Powers Peterson, 106

IgG Platelet Antibodies in EDTA-Dependent Pseudothrombocytopenia Bind to Platelet Membrane Glycoprotein IIb

Francesco Fiorin, Agostino Steffan, Paola Pradella,
Nicola Bizzaro, Rocco Potenza, and Vincenzo
De Angelis, 178

Monitoring Heparin Therapy: APTT Results From Partial- vs Full-Draw Tubes

Jamie E. Siegel, David W. Bernard, Vanlila K. Swami, and Kathleen Sazama, 184

Results of Diagnostic Studies for Thrombophilia in a Large Group of Patients With a Personal or Family History of Thrombosis, The

Luba L. Dumenco, Abbe J. Blair, and Joseph D. Sweeney, 673

EDITORIALS

Diagnosis of Desmoplastic Malignant Mesothelioma, The

Thomas V. Colby, 135

Effect of Long-Term Acid Suppression on Gastric Mucosal Histology, The

Patrick L. Fitzgibbons and Priya A. Jamidar, 569

Frozen Section of Thyroid? Just Say No

Richard M. DeMay, 423

More Things Change, the More They Stay the Same, The

Paul E. Swanson, 279

Prognostic Factors for Cutaneous Melanoma

Mark R. Wick, 713

Striking a Balance: Tissue Harvesting for Prostate Cancer Research

John E. Tomaszewski and Virginia A. LiVolsi, 1

HEMATOPATHOLOGY

Case Reports

Follicular Large Cell Lymphoma With Immunoblastic Features in a Child With Wiskott-Aldrich Syndrome: An Unusual Immunodeficiency-Related Neoplasm Not Associated With Epstein-Barr Virus

Steven H. Kroft, William G. Finn, Timothy P. Singleton,
Charles W. Ross, Susan Sheldon, and Bertram Schnitzer, 95

Original Articles

Acute Erythroleukemia: Evaluation of 48 Cases With Reference to Classification, Cell Proliferation, Cytogenetics and Prognosis

Fermina M. Mazzella, Areta Kowal-Vern, M. Atef Shrit,
A. Luke Wibowo, James T. Rector, James D. Cotelingam,
Joyce Collier, Anwar Mikhael, Hernani Cualing, and
Harold R. Schumacher, 590

Automated Cell Count in Flow Cytometry: A Valuable Tool to Assess CD4 Absolute Levels in Peripheral Blood

Marie C. Béné, Marie N. Kolopp Sarda, Jamal El Kaissouni,
Anne De March Kennel, Claire Molé, Chantal Kohler, and
Gilbert C. Faure, 321

Characterization of the Lymphoid Infiltrate in Hashimoto Thyroiditis by Immunohistochemistry and Polymerase Chain Reaction for Immunoglobulin Heavy Chain Gene Rearrangement

Eric D. Hsi, Timothy P. Singleton, Suzette M. Svoboda,
Bertram Schnitzer, and Charles W. Ross, 327

Cutaneous Agranular CD2⁻ CD4⁺ CD56⁺ "Lymphoma," A: Report of Two Cases and Review of the Literature

Junichi Kameoka, Ryo Ichinohasama, Misako Tanaka,
Ikuko Miura, Yasuo Tomiya, Shinichiro Takahashi,
Minami Yamada, Izumi Ishikawa, Ikuko Kadowaki,
Osamu Sasaki, Jun Kimura, Kuniaki Meguro, Kiyoshi
Ooya, and Sadayoshi Ito, 478

Detecting Disseminated *Mycobacterium avium* Complex Infections in HIV-Positive Patients: The Usefulness of Bone Marrow Trephine Biopsy Specimens, Aspirate Cultures, and Blood Cultures

Jerry Hussong, Lance R. Peterson, John R. Warren, and
LoAnn C. Peterson, 806

Detection of Trisomy 3 in Primary Gastric B-Cell Lymphoma by Using Chromosome In Situ Hybridization on Paraffin Sections

You Zhang, Annie N. Y. Cheung, Alexander C. L. Chan,
Dan-Hua Shen, Wei-Sheng Xu, Lap-Ping Chung, and
Faith C. S. Ho, 347

- Diagnostic Usefulness of Bone Marrow Cultures in Patients With Fever of Unknown Origin, The
Emily E. Volk, Michael L. Miller, Barbara A. Kirkley, and John A. Washington, 150
- Enhanced Detection of Malignant Lymphoma in Cerebrospinal Fluid by Multiparameter Flow Cytometry
William G. Finn, LoAnn C. Peterson, Catherine James, and Charles L. Goolsby, 341
- Flow Cytometric and Immunohistochemical Analysis of Small Lymphocytic Lymphoma, Mantle Cell Lymphoma, and Plasmacytoid Small Lymphocytic Lymphoma
Joseph A. Tworek, Timothy P. Singleton, Bertram Schnitzer, Eric D. Hsi, and Charles W. Ross, 582
- Four-Color Flow Cytometric Immunophenotypic Determination of Peripheral Blood CD4⁺ T-Lymphocyte Counts: A Comparison of Validity and Cost-Effectiveness With a Two-Color Method
Jeffery L. Kutok, Agatha O. Roma, Susan J. Lemire, and David M. Dorfman, 465
- Lymphoid Lesions of the Gastrointestinal Tract: A Histologic, Immunophenotypic, and Genotypic Analysis of 49 Cases
Maureen J. O'Sullivan, Jon H. Ritter, Peter A. Humphrey, and Mark R. Wick, 471
- Monoclonal IgH Gene Rearrangement in Microdissected Nodules from Nodular Sclerosis Hodgkin Disease
Keith F. Izban, John F. Nawrocki, Serhan Alkan, and Eric D. Hsi, 599
- Multidimensional Flow Cytometry of Marrow Can Differentiate Leukemic From Normal Lymphoblasts and Myeloblasts After Chemotherapy and Bone Marrow Transplantation
Denise A. Wells, George E. Sale, Howard M. Shulman, David Myerson, Eileen M. Bryant, Theodore Gooley, and Michael R. Loken, 84
- Myeloperoxidase Detection by Three-Color Flow Cytometry and by Enzyme Cytochemistry in the Classification of Acute Leukemia
Phuong L. Nguyen, Iwona Olszak, Nancy L. Harris, and Frederic I. Pfeffer, 163
- Nodular Lesions of Monocytic Component in Myelodysplastic Syndrome
Wichean Mongkonsritragoon, Louis Letendre, Junqi Qian, and Chin-Yang Li, 154
- Presence of CD34⁺ Cell Clusters Predicts Impending Relapse in Children With Acute Lymphoblastic Leukemia Receiving Maintenance Chemotherapy, The
Lisa M. Rimsza, David S. Viswanatha, Stuart S. Winter, Catherine P. Leith, Jami D. Frost, and Kathy Foucar, 313
- Prevalence of Myeloperoxidase Gene Expression in Infant Acute Lymphocytic Leukemia
Garth E. Austin, Carlos S. Alvarado, Eric D. Austin, Nasrollah Hakami, Wei-Guo Zhao, Allen Chauvenet, Michael J. Borowitz, and Andrew J. Carroll, 575
- Primary Central Nervous System Lymphomas in 72 Immuno-competent Patients: Pathologic Findings and Clinical Correlations

- Sophie Camilleri-Broët, Antoine Martin, Anne Moreau, Régis Angonin, Dominique Hénin, Marie Francine Gontier, Marie Christine Rousselet, Sylvie Caulet-Maugendre, Paulette Cuillière, Thierry Lefrancq, Karima Mokhtari, Mohib Morcos, Philippe Broët, Michèle Kujas, Jean-Jacques Hauw, and Bernard Desablens, for the Groupe Ouest Est d'étude des Leucémies et Autres Maladies du Sang (GOELAMS), and Martine Raphaël, 607
- Surface Immunoglobulin Light Chain-Positive Acute Lymphoblastic Leukemia of FAB L1 or L2 Type: A Report of 6 Cases in Adults
Mohammad A. Vasef, Russell K. Brynes, Joyce L. Murata-Collins, Daniel A. Arber, and L. Jeffrey Medeiros, 143
- TEST 1 Automated System, The: A New Method for Measuring the Erythrocyte Sedimentation Rate
Mario Plebani, Stefania De Toni, Maria Colomba Sanzari, Daniela Bernardi, and Elisabeth Stockreiter, 334
- Usefulness of CD64, Other Monocyte-Associated Antigens, and CD45 Gating in the Subclassification of Acute Myeloid Leukemias with Monocytic Differentiation, The
Alyssa M. Krasinskas, Mariusz A. Wasik, Malek Kamoun, Richard Schretzenmair, Jonni Moore, and Kevin E. Salhany, 797

MICROBIOLOGY AND INFECTIOUS DISEASE

Original Articles

- Comprehensive Evaluation of Performance, Laboratory Application, and Clinical Usefulness of Two Direct Amplification Technologies for the Detection of *Mycobacterium tuberculosis* Complex
Phyllis Della-Latta and Susan Whittier, 301
- Detection of *Legionella* by PCR in Respiratory Specimens Using a Commercially Available Kit
Susan C. Weir, Steven H. Fischer, Frida Stock, and Vee J. Gill, 295

PATHOLOGY PATTERNS

Forefronts

- Approach to Lymphoproliferative Infiltrates of the Skin
Werner Kempf, Reinhard Dummer, and Gunter Burg, S84
- Are There Site-Specific Differences Among Extranodal Aggressive B-Cell Neoplasms?
Risa B. Mann, S144
- Are There Site-Specific Differences Among the MALT Lymphomas—Morphologic, Clinical?
Jerome S. Burke, S133
- Classification of Intestinal T-Cell Neoplasms and Their Differential Diagnosis
Andreas Chott, Michael Vesely, Ingrid Simonitsch, Isabella Mosberger, and Hanns Hanak, S68

Extranodal Hematopoietic/Lymphoid Disorders

Jerome S. Burke, S40

Extranodal Peripheral T-Cell and NK-Cell Neoplasms

Elaine S. Jaffe, Laszlo Krenacs, Shimareet Kumar,

Douglas W. Kingma, and Mark Raffeld, S46

How Do You Distinguish Benign From Malignant Extranodal Small B-Cell Proliferations?

Paul J. Kurtin, S119

Lymphoid Proliferations of the Salivary Glands

Nancy Lee Harris, S94

MALT Lymphomas in 1997

Peter M. Banks and Peter G. Isaacson, S75

Pathologic and Clinical Spectrum of Anaplastic Large Cell

Lymphoma and Correlation With ALK Gene Dysregulation, The

Marsha C. Kinney and Marshall E. Kadin, S56

Role of Morphologic Features, Phenotype, Genotype, and Anatomic

Site in Defining Extranodal T-Cell or NK-Cell Neoplasms, The

Marsha C. Kinney, S104

Usefulness of Immunophenotypic and Genotypic Studies in the Diagnosis and Classification of Hematopoietic and Lymphoid Neoplasms, The

Glaucio Frizzera, C. Daniel Wu, and Giorgio Inghirami, S13

What Are the Criteria for Distinguishing MALT From Non-MALT Lymphoma at Extranodal Sites?

Nancy Lee Harris and Peter G. Isaacson, S126

World Health Organization Classification of Neoplastic Diseases of the Hematopoietic and Lymphoid Tissues

Elaine S. Jaffe, Nancy L. Harris, Jacques Diebold, and

Hans-Konrad Muller-Hermelink, S8

Preface

Extranodal Hematopoietic/Lymphoid Disorders

Steven H. Swerdlow, S7

REVIEW ARTICLES

 α -L-Fucose: A Potentially Critical Molecule in Pathologic Processes Including Neoplasia

Jay J. Listinsky, Gene P. Siegal, and Catherine M. Listinsky, 425

SPECIAL ARTICLES

Assessment of Fetal Lung Maturity: Practice Parameter

Stuart B. Dubin, 723

Recommendations for the Reporting of Larynx Specimens Containing Laryngeal Neoplasms

Douglas R. Gnepp, Leon Barnes, John Crissman, and

Richard Zarbo, 137

Recommendations for the Reporting of Tissues Removed as Part of the Surgical Treatment of Cutaneous Melanoma

Alistair J. Cochran, Christiane Bailly, Martin Cook,

Kerry Crotty, Stan McCarthy, Martin Mihm, Walter Mooi, and Richard Sagebiel, 719

Use of Rh Immune Globulin: ASCP Practice Parameter

Elizabeth A. Hartwell, 281

subject index

Index of Issues: July, pp. 1-134; August, 135-270; September, 271-414; October, 415-558; November, 559-702; December, 703-846. Page numbers beginning with S denote articles in the October supplement.

A

- Abortus with hydropic changes, molar pregnancy distinguished from, 776
- Abstracts of Papers, 111, 510
- Acid-base imbalance, serum anion gap measurement for diagnosing, wide variation in, by chemistry analyzers, 735
- Acid-fast bacilli, staining of bone marrow trephine biopsy specimens with, for detecting disseminated *Mycobacterium avium* complex infection in HIV-positive patients, 806
- Acid suppression, effects of long-term, on gastric mucosal histology, 569
- Acquired immunodeficiency syndrome. *See* Human immunodeficiency virus infection
- Activated partial thromboplastin time
 - and citrate volume adjustment, for patients with severe anemia, 106
 - for monitoring heparin therapy, results from partial- vs full-draw tubes, 184
 - reagent, comparing different lots of, 173
- Activated protein C resistance, as cause of familial thrombophilia, 673
- Adenocarcinoma
 - pancreatic ductal, p53, p21^{WAF1}, and TGF- β 1 expression in, 16
 - of prostate. *See* Prostate cancer
 - pulmonary, histochemical analysis of mucous cells of congenital adenomatoid malformation of the lung, and carcinogenesis of, expressing gastric mucins, 450
 - in situ, endocervical glandular atypia as preneoplastic precursor of, 200
- Agglutination method, for phosphatidylglycerol, in fetal lung maturity assessment, 723
- Albumin, as serum protein fraction, capillary zone electrophoresis in analysis of, 248
- Amniocentesis, fetomaternal hemorrhage as risk for, 284
- Amniotic fluid, in fetal lung maturity assessment, 723
- Anaplastic lymphoma kinase (ALK) gene dysregulation, and anaplastic large cell lymphoma, S56
- Anemia, citrate volume adjustment in coagulation testing for patients with severe, 106

- Angiofibroma
 - cellular, 663
 - giant cell, 662
- Anion gap, serum, wide variation in measurement of, by chemistry analyzers, 735
- Antibodies. *See also* Monoclonal antibodies
 - immunoglobulin G platelet antibodies, in EDTA-dependent pseudothrombocytopenia, binding to platelet membrane glycoprotein IIb, 178
 - on necrotic tumor tissue, sensitivity and specificity of, 641
- Antigens
 - Lewis antigens, 425
 - monocyte-associated, in subclassification of acute myeloid leukemias with monocytic differentiation, 797
 - tumor-associated carbohydrate antigens, 428
- α_1 -Antitrypsin, as serum protein fraction, capillary zone electrophoresis in analysis of, 248
- Atypical glandular cells of undetermined significance, Papanicolaou smear diagnosis of, interobserver variability of, 653
- Automation
 - automated cell count, in flow cytometry, as tool to assess CD4 absolute levels in peripheral blood, 321
 - automated image analysis, implications of tissue heterogeneity of immunohistochemically detected estrogen receptor for, 758
 - TEST 1 automated system, for erythrocyte sedimentation rate measurement, 334
- Autopsy, undiagnosed causes of death determined by, 210

B

- Barrett's esophagus, 219
- Basic fibroblast growth factor, in melanoma progression, 788
- B-cell lymphoma
 - benign lymphoproliferations distinguished from malignant small, S119
 - cutaneous, S84

- extranodal, S40
 site-specific differences among extranodal aggressive, S144
 small lymphocytic lymphoma, mantle cell lymphoma, and
 plasmacytoid small lymphocytic lymphoma, flow
 cytometric and immunohistochemical analysis of, S82
 vs T-cell lymphoma, S13
 World Health Organization classification of, S8
- B-cell pseudolymphoma, S84
- Bcl-2 protein
 expression of, in primary lymphoma of central nervous
 system in immunocompetent patients, 607
 positivity and high MIB-1 (Ki-67) proliferative rate as
 independent predictive markers for recurrence in prostate
 carcinoma, 443
- Bile duct brushing cytology, statistical analysis of proposed
 diagnostic criteria for, 635
- Binding, of cocaine and cocaethylene to human milk, 491
- Biochemical failure, histology of radiation therapy effect on
 prostate adenocarcinoma as assessed by needle biopsy after
 brachytherapy boost, correlation with, 765
- Biopsy. *See also* Fine-needle aspiration biopsy
 biopsy bag artifact, 224
 bone marrow trephine biopsy specimens
 for detecting disseminated *Mycobacterium avium*
 complex infections in HIV-positive patients, 806
 in diagnosis of fever of unknown origin, 150
 esophageal, histopathologic practices for specimens from, 219
- Bladder carcinoma, transitional cell
 p53 mutations in bladder washings and histologic specimens,
 comparative analysis of, 647
 thrombomodulin immunostaining for, 385
- Bladder washings, p53 mutations in, comparative analysis with
 histologic specimens, 647
- Blastoid NK-cell lymphoma, S51
- Blood culture
 in detecting disseminated *Mycobacterium avium* complex
 infections in HIV-positive patients, 806
 in diagnosis of fever of unknown origin, 150
- Blood transfusion. *See* Transfusion
- B-lymphoblastic lymphoma, S144
- B-marginal zone lymphoma, S75, S94, S126
- Body cavity-based lymphomas, S147
- Bone, primary lymphoma of, S146
- Bone marrow cultures
 in detecting disseminated *Mycobacterium avium* complex
 infections in HIV-positive patients, 806
 diagnostic usefulness for fever of unknown origin, 150
- Bone marrow transplantation, for acute lymphoblastic leukemia,
 multidimensional flow cytometry for differentiating leukemic
 from normal lymphoblasts and myeloblasts after, 84
- Bone marrow trephine biopsy specimens
 for detecting disseminated *Mycobacterium avium* complex
 infections in HIV-positive patients, 806
 in diagnosis of fever of unknown origin, 150
- Book Reviews, 128, 262, 405, 546, 693, 810
- Borderline vascular neoplasms, 664
- Brachytherapy boost, histology of radiation therapy effect on
 prostate adenocarcinoma as assessed by needle biopsy after,
 765
- Breast cancer
 carcinoma
 ductal, in situ, cancerization of lobules and atypical
 ductal hyperplasia adjacent to, 357
 flow cytometric DNA analysis, with cytokeratin gating for
 formalin-fixed deparaffinized breast cancer nuclei, 227
 lymphoma
 of MALT type, S140
 primary malignant, S145
- Breast-conserving therapy, cancerization of lobules and atypical
 ductal hyperplasia adjacent to, ductal carcinoma in situ of
 breast, significance for, 357
- Breslow thickness, 715, 753
- Bronchoalveolar lavages, polymerase chain reaction detection of
Legionella species, in specimens of, using commercially
 available kit, 295
- Bufalin, in cross-reactant-induced interference in digoxin
 monitoring, by microparticle enzyme immunoassay, 78
- Burkitt lymphoma, S24, S144
- ## C
- Cancerization of lobules, and atypical ductal hyperplasia, adjacent
 to ductal carcinoma in situ of breast, 357
- Capillary zone electrophoresis, in serum protein abnormality
 evaluation, 248, 503
- Carcinoma. *See also* Adenocarcinoma
 of breast. *See* Breast cancer
 CD31 immunoreactivity in, 374
 chromophobe renal cell, discriminant nuclear features of
 renal oncocytoma and, 782
 estrogen receptor-positive, heterogeneity of estrogen
 receptor in tumor cell populations, and prognosis in, 758
 hepatocellular, diagnosis of, by quantitative detection of
 hepatoma-specific bands of serum γ -glutamyltransferase,
 743
 mucinous bronchioloalveolar, as producing gastric
 mucins, 450
 of prostate, bcl-2 oncoprotein positivity and high MIB-1
 proliferative rate, as independent predictive markers for
 recurrence in, 443
 squamous cell. *See* Squamous cell carcinoma
 transitional cell
 p53 mutations in bladder washings and histologic
 specimens, comparative analysis of, 647
 thrombomodulin expression in, 385
- Cardiac troponin I
 for acute ischemic myocardial injury detection, compared
 with CK-MB and myoglobin, in swine model, 70
 alterations in dog hearts with myocardial infarction,
 correlation with infarct size, 241

- Cardiac troponin T, alterations in dog hearts with myocardial infarction, correlation with infarct size, 241
- Causes of death, autopsies determining undiagnosed, 210
- CD4
- automated cell count in flow cytometry, as tool to assess absolute levels of, in peripheral blood, 321
 - cutaneous agranular CD2⁺ CD4⁺ CD56⁺ lymphoma, 478
 - four-color flow cytometric immunophenotypic determination of peripheral blood CD4⁺ T-lymphocyte counts, 465
- CD8, and four-color flow cytometric immunophenotypic determination of peripheral blood CD4⁺ T-lymphocyte counts, 465
- CD14, in subclassification of acute myeloid leukemias with monocytic differentiation, 797
- CD16, in subclassification of acute myeloid leukemias with monocytic differentiation, 797
- CD23, expression of, in small lymphocytic lymphoma, mantle cell lymphoma, and plasmacytoid small lymphocytic lymphoma, 582
- CD24, in subclassification of acute myeloid leukemias with monocytic differentiation, 797
- CD30, expression of
- and anaplastic large cell lymphoma, S56
 - in cutaneous lymphoma, S84
- CD31 immunoreactivity, in carcinomas and mesotheliomas, 374
- CD32, in subclassification of acute myeloid leukemias with monocytic differentiation, 797
- CD34⁺ cell clusters, as predicting relapse in children with acute lymphoblastic leukemia, receiving maintenance chemotherapy, 313
- CD45 gating, in subclassification of acute myeloid leukemias with monocytic differentiation, 797
- CD56⁺
- cutaneous agranular CD2⁺ CD4⁺ CD56⁺ lymphoma, 478
 - T-cell lymphomas, S68, S104
- CD64, in subclassification of acute myeloid leukemias with monocytic differentiation, 797
- CD86, in subclassification of acute myeloid leukemias with monocytic differentiation, 797
- Cell adhesion, α -L-fucose in, 425
- Cell cycle arrest, Ki-67 positivity, in noncycling cells, 24
- Cell proliferation
- in acute erythroleukemia, 590
 - high MIB-1 proliferative rate, and bcl-2 oncoprotein positivity, as independent predictive markers for recurrence in prostate carcinoma, 443
 - in placentas with hydropic change and hydatiform mole, as detected by Ki-67 and proliferating cell nuclear antigen immunostaining, 776
- Cellular angiofibroma, 663
- Central nervous system, primary lymphomas of, in immunocompetent patients, 607
- Cerebrospinal fluid, malignant lymphoma in, multiparameter flow cytometry for detection of, 341
- Cervical cancer, Papanicolaou smear diagnosis of atypical glandular cells of undetermined significance, interobserver variability of, 653
- Chondroid lipoma, 660
- Chromatography, thin-layer, for fetal lung maturity assessment, 723
- Chromophobe renal cell carcinoma, discriminant nuclear features of renal oncocytoma and, 782
- Citrate volume adjustment, in coagulation testing for patients with severe anemia, 106
- CK-MB, for acute ischemic myocardial injury detection, compared with cardiac troponin I and myoglobin, in swine model, 70
- Clark level, 715, 753
- Clonality
- as hallmark of malignant lymphomas, S122
 - of Hodgkin and Reed-Sternberg cells, in nodular sclerosis Hodgkin disease, 599
- C-myc gene rearrangement, follicular lymphoma with immunoblastic features in child with Wiskott-Aldrich syndrome, containing, 95
- Coagulation. *See* Activated partial thromboplastin time; Prothrombin time
- Cocaethylene, as binding to human milk, 491
- Cocaine, as binding to human milk, 491
- Colitis, nonsteroidal antiinflammatory drug-associated, histopathology of, 622
- Complete hydatiform moles, 776
- Cord blood testing, 287
- Coronary artery disease, and high-density lipoprotein cholesterol, a rapid homogeneous method for direct measurement of, 495
- Coronary stenting, pathology of restenosis in saphenous bypass grafts, after long-term stent implantation, 378
- Correspondence, 129, 264, 407, 549, 695, 812
- Corticotropin releasing hormone, in melanoma progression, 789
- Cost analysis
- of four-color flow cytometric immunophenotypic determination of peripheral blood CD4⁺ T-lymphocyte counts, 465
 - of routine histologic examination, 391
- Cyclin D1, and MIB-1 immunohistochemistry, in ependymomas, 629
- Cytochemistry, enzyme, myeloperoxidase detection by, in classification of acute leukemia, 163
- Cytogenetics
- of acute erythroleukemia, 590
 - interphase, chromosome in situ hybridization for detection of trisomy 3 in primary gastric B-cell lymphoma, 347
 - multidimensional flow cytometry for differentiating leukemic from normal lymphoblasts and myeloblasts, after therapy for acute lymphoblastic leukemia, compared with, 84
 - in soft tissue tumor diagnosis, 660
- Cytokeratin, flow cytometric DNA analysis with cytokeratin gating for formalin-fixed deparaffinized breast cancer nuclei, 227
- Cytokeratin antibodies, on necrotic tumor tissue, sensitivity and specificity of, 641
- Cytokines, normal and malignant melanoma differing in production rate and responsiveness to, 788
- Cytology
- bile duct brushing, statistical analysis of proposed diagnostic criteria for, 635

intraoperative, and frozen sections compared, for diagnosis of thyroid lesions, 456
 Cytopathology, in Wegener's granulomatosis diagnosis, 10
 Cytotoxic T cells, S46

D

Dermoepidermal junction, 713
 Diffuse large B-cell lymphoma, S23, S144
 Digitoxin, in cross-reactant-induced interference in digoxin monitoring, by microparticle enzyme immunoassay, 78
 Digoxin, microparticle enzyme immunoassay for, cross-reactant-induced interference in, 78
 Direct amplification tests, for *Mycobacterium tuberculosis* detection, evaluation of performance, laboratory application, and clinical usefulness of, 301
 DNA analysis, flow cytometric, with cytokeratin gating for formalin-fixed deparaffinized breast cancer nuclei, 227
 DNA ploidy
 in malignant melanoma prognosis, 789
 2-parameter cytokeratin-DNA flow method for measurement of, 227
 Drug resistance, of monocytic nodules, in myelodysplastic syndrome, 154
 Dura, MALT lymphoma of the, S141

E

Ectopic pregnancy, fetomaternal hemorrhage occurring with, 284
 EDTA-dependent pseudothrombocytopenia, IgG platelet antibodies in, binding to platelet membrane glycoprotein IIb, 178
 Electrolytes, wide variation in serum anion gap measurement, by chemistry analyzers, 735
 Endocervical glandular atypia, as preneoplastic precursor of adenocarcinoma in situ, 200
 Endoscopic retrograde cholangiopancreatography, 635
 Endoscopy, proton pump inhibitor-associated gastric polyps developing after, 615
 Enteropathy-associated T-cell lymphoma, S68
 Enteropathy-type intestinal T-cell lymphoma, S47, S104
 Enzyme immunoassay, microparticle, for digoxin, cross-reactant-induced interference in, 78
 Enzyme-linked antiglobulin test, 288
 Ependymomas, cyclin D1 and MIB-1 immunohistochemistry in, 629
 Epidermal growth factor, in melanoma progression, 788
 Epstein-Barr virus
 follicular lymphoma with immunoblastic features in child with Wiskott-Aldrich syndrome, not associated with, 95
 Hodgkin and Reed-Sternberg cells infected by, 599
 and primary lymphoma of central nervous system in immunocompetent patients, 607
 T-cell and NK-cell neoplasms associated with, S46, S110
 Equilibrium dialysis, for analysis of cocaine and cocaethylene binding to human milk, 491

Error, Papanicolaou smear diagnosis of atypical glandular cells of undetermined significance, interobserver variability of, 653
 Erythrocyte rosette test, 288
 Erythrocyte sedimentation rate, TEST 1 automated system for measuring, 334
 Erythroleukemia, acute, evaluation of 48 cases with reference to classification, cell proliferation, cytogenetics, and prognosis of, 590
 Esophagitis, reflux, 219
 Esophagus, histopathologic practices for biopsy specimens from, 219
 Estrogen receptor, tissue heterogeneity of immunohistochemically detected, 758
 Evacuated blood collection tube systems, APTT results from partial- vs full-draw tubes, 184
 Extranodal hematopoietic disorders, S7, S40
 Extranodal neoplasms. *See also by site and type*
 criteria for distinguishing MALT from non-MALT lymphoma at extranodal sites, S126
 in distinguishing benign from malignant extranodal small B-cell proliferations, S119
 morphologic features, phenotype, genotype, and anatomic site in defining, S104
 peripheral T-cell and NK-cell, S46
 site-specific differences among extranodal aggressive B-cell lymphomas, S144

F

Factor V_{Leiden}, thrombophilia evaluation affected by recognition of, 673
 Falling drop technique, for fetal lung maturity assessment, 724
 Fetal lung maturity, practice parameter for assessment of, 723
 Fetomaternal hemorrhage, ASCP practice parameter for use of Rh immune globulin and, 281
 Fever of unknown origin, diagnostic usefulness of bone marrow cultures for, 150
 Fibrous pleurisy, desmoplastic malignant mesothelioma distinguished from, 135, 191
 Fine-needle aspiration biopsy
 vs frozen section, for diagnosis of thyroid lesions, 423
 histology of radiation therapy effect for prostate adenocarcinoma, as assessed by, after brachytherapy boost, 765
 for soft tissue sarcoma diagnosis, 50
 for Wegener's granulomatosis diagnosis, 10
 Flow cytometry
 for acute lymphoblastic leukemia classification, 143
 automated cell count in, as tool to assess CD4 absolute levels in peripheral blood, 321
 four-color, for immunophenotypic determination of peripheral blood CD4⁺ T-lymphocyte counts, 465
 immunophenotyping by, in subclassification of acute myeloid leukemias with monocytic differentiation, 797
 multidimensional, for differentiating leukemic from normal lymphoblasts and myeloblasts after therapy for acute lymphoblastic leukemia, 84

G

- multiparameter
 - with cytokeratin gating for formalin-fixed deparaffinized breast cancer nuclei, 227
 - for malignant lymphoma in cerebrospinal fluid detection, 341
- for Rh-positive RBCs, 289
- of small lymphocytic lymphoma, mantle cell lymphoma, and plasmacytoid small lymphocytic lymphoma, 582
- three-color, myeloperoxidase detection by, in classification of acute leukemia, 163
- Fluorescence in situ hybridization, in comprehensive system to explore p53 mutations, 368
- Fluorescence polarization, for fetal lung maturity assessment, 723
- FMC7, expression of, in small lymphocytic lymphoma, mantle cell lymphoma, and plasmacytoid small lymphocytic lymphoma, 582
- Foam stability, for fetal lung maturity assessment, 723
- Follicular B-cell lymphoma, 95, 584
- Frozen section, for diagnosis of thyroid lesions
 - vs fine-needle aspiration biopsy, 423
 - intraoperative cytology compared with, 456
- α -L-Fucose, as potentially critical molecule in pathologic processes including neoplasia, 425
- Fundic gland polyps, and proton pump inhibitor-associated gastric polyps, 615

H

- in extranodal T-cell or NK-cell neoplasm definition, S104
 in hematopoietic and lymphoid neoplasm diagnosis and classification, S13
 of lymphoid infiltrates of the gastrointestinal tract, 471
 Giant cell angiofibroma, 662
 Glioma, and cyclin D1 and MIB-1 immunohistochemistry in ependymomas, 629
 Globulins, as serum protein fraction, capillary zone electrophoresis in analysis of, 248
 γ -Glutamyltransferase, hepatocellular carcinoma, diagnosis of, by quantitative detection of hepatoma-specific bands of serum, 743-
 Glycalicain, and PTCP-associated IgG autoantibodies in platelet turnover, 178
 Glycoprotein IIb, IgG platelet antibodies in EDTA-dependent pseudothrombocytopenia binding to, 178
 Granulomas, in disseminated *Mycobacterium avium* complex infections in HIV-positive patients, 806
 Granulomatosis
 lymphomatoid, S113
 Wegener's, cytopathology in diagnosis of, 10
 Granulomatous cutaneous T-cell lymphomas, S88
 Growth factors, normal and malignant melanoma differing in production rate and responsiveness to, 788
- ## H
- Hashimoto thyroiditis
 lymphoid infiltrate in, as characterized by immunohistochemistry and PCR for immunoglobulin heavy chain gene rearrangement, 327
 MALT lymphomas of salivary gland associated with, S133
Helicobacter pylori
 in acquired MALT lymphoma, S75
 gastric MALT lymphomas associated with, S133
 Hemangioendothelioma, 664
 Hematocrit, and citrate volume adjustment in coagulation testing for patients with severe anemia, 106
 Hematogones
 CD34⁺ TdT-positive cell clusters, for differentiating lymphoblasts from, 313
 multidimensional flow cytometry for differentiating residual or relapsed leukemia from, after treatment for acute lymphoblastic leukemia, 84
 Hematopoietic disorders, extranodal, S7, S40
 Hematopoietic neoplasms. *See also sites and types by name*
 immunophenotypic and genotypic studies in diagnosis and classification of, S13
 World Health Organization classification of, S8
 Hemolytic disease of the newborn, ASCP practice parameter for use of Rh immune globulin, 281
 Heparin, unfractionated
 APTT reagent values and therapeutic range of, 173
 APTT results from partial- vs full-draw tubes, 184

- Hepatitis C, TORDJI-22 monoclonal antibody, for antigen detection, 32
- Hepatoma-specific bands, of serum γ -glutamyltransferase, hepatocellular carcinoma, diagnosis of, by quantitative detection of, 743
- Hepatosplenic $\gamma\delta$ T-cell lymphoma, S49, S104
- Heterogeneity, tissue, of immunohistochemically detected estrogen receptor, 758
- High-density lipoprotein cholesterol, a rapid homogeneous method for direct measurement of, 495
- Histology
- biopsy bag artifact, 224
 - cost-effectiveness of routine histologic examination, 391
 - esophageal biopsy specimen procedures, 219
 - p53 mutations in bladder washings and histologic specimens, comparative analysis of, 647
- Hodgkin and Reed-Sternberg cells, 599
- Hodgkin disease
- immunophenotypic and genotypic studies in diagnosis and classification of, S17, S24
 - nodular sclerosis, monoclonal IgH gene rearrangement, in microdissected nodules from, 599
 - in World Health Organization classification of lymphomas, S8
- Human immunodeficiency virus infection
- automated cell count in flow cytometry, as tool to assess absolute levels of CD4 in peripheral blood, 321
 - disseminated *Mycobacterium avium* complex infections in HIV-positive patients, bone marrow trephine biopsy specimens, aspirate cultures, and blood cultures in detecting, 806
 - four-color flow cytometric immunophenotypic determination of peripheral blood CD4⁺ T-lymphocyte counts, 465
- Human milk, cocaine and cocaethylene as binding to, 491
- Hydatiform mole, proliferative activity in placentas with hydropic change and, as detected by Ki-67 and proliferating cell nuclear antigen immunostaining, 776
- Hydropic change, proliferative activity in placentas with hydatiform mole and, as detected by Ki-67 and proliferating cell nuclear antigen immunostaining, 776
- Hyperplasia
- atypical ductal, and cancerization of lobules adjacent to ductal carcinoma in situ of breast, 357
 - cystic lymphoid, S94
 - hyperplastic polyps, and proton pump inhibitor-associated gastric polyps, 615
 - lymphoid, S40
 - reactive mesothelial, vs mesothelioma, including mesothelioma in situ, 397
- Image analysis, implications of tissue heterogeneity of immunohistochemically detected estrogen receptor for, 758
- Immune thrombocytopenic purpura, Rh immune globulin in treatment of, 286
- Immunoassay, microparticle enzyme, for digoxin, cross-reactant-induced interference in, 78
- Immunocompetent patients, primary lymphoma of central nervous system in, 607
- Immunodeficiency disorders. *See also* Human immunodeficiency virus infection
- Wiskott-Aldrich syndrome, follicular lymphoma with immunoblastic features in child with, not associated with Epstein-Barr virus, 95
- Immunoglobulin, surface, expression of, in acute lymphoblastic leukemia, 143
- Immunoglobulin G platelet antibodies, in EDTA-dependent pseudothrombocytopenia, binding to platelet membrane glycoprotein IIb, 178
- Immunoglobulin H, monoclonal, gene rearrangement, in microdissected nodules from nodular sclerosis Hodgkin disease, 599
- Immunoglobulin heavy chain gene rearrangement, polymerase chain reaction for
- characterization of lymphoid infiltrate in Hashimoto thyroiditis by, 327
 - for lymphoid infiltrates of the gastrointestinal tract, 471
- Immunohistochemistry
- CD31 immunoreactivity in carcinomas and mesotheliomas, 374
 - characterization of lymphoid infiltrate in Hashimoto thyroiditis by, 327
 - in comprehensive system to explore p53 mutations, 368
 - for distinguishing desmoplastic malignant mesothelioma from fibrous pleurisy, 191
 - hepatitis C antigen detection, by TORDJI-22 monoclonal antibody, 32
 - histochemical analysis of mucous cells of congenital adenomatoid malformation of the lung, and carcinogenesis of pulmonary adenocarcinoma expressing gastric mucins, 450
 - histology of radiation therapy effect on prostate adenocarcinoma, as assessed by needle biopsy after brachytherapy boost, 765
 - Ki-67 positivity, in noncycling cells, 24
 - of necrotic tumor tissue, sensitivity and specificity of antibodies on, 641
 - in reactive mesothelial hyperplasia and epithelial mesothelioma discrimination, 397
 - of small lymphocytic lymphoma, mantle cell lymphoma, and plasmacytoid small lymphocytic lymphoma, 582
 - tissue heterogeneity of immunohistochemically detected estrogen receptor, 758
- Immunoperoxidase stains, for predicting relapse in children with acute lymphoblastic leukemia, receiving maintenance chemotherapy, 313
- Immunophenotyping
- in acute lymphoblastic leukemia classification, 143
 - in distinguishing benign from malignant extranodal small B-cell proliferations, S119
- I
- ICHs reference method for ESR, TEST 1 automated system compared with, 334

- in extranodal T-cell or NK-cell neoplasm definition, S104
- by flow cytometry, in subclassification of acute myeloid leukemias with monocytic differentiation, 797
- four-color flow cytometric determination of peripheral blood CD4⁺ T-lymphocyte counts, 465
- in hematopoietic and lymphoid neoplasm diagnosis and classification, S13
- of lymphoid infiltrates of the gastrointestinal tract, 471
- multidimensional flow cytometry for differentiating leukemic from normal lymphoblasts and myeloblasts, after therapy for acute lymphoblastic leukemia, 84
- multiparameter flow cytometry for detection of malignant lymphoma in cerebrospinal fluid, 341
- Immunostaining
 - proliferative activity in placentas with hydropic change and hydatiform mole, as detected by Ki-67 and proliferating cell nuclear antigen, 776
 - for thrombomodulin expression, in transitional cell carcinoma, 385
- Immunosubtraction, for monoclonal gammopathy immunotyping, 251, 503
- Infarct size, cardiac troponin I and T alterations in dog hearts with myocardial infarction, correlation with, 241
- Infection, autopsies determining undiagnosed, 210
- Inflammatory bowel disease, nonsteroidal antiinflammatory drug-associated colitis, histopathology of, 622
- Inflammatory myofibroblastic tumor, 666
- In situ hybridization
 - chromosome, trisomy 3 in primary gastric B-cell lymphoma detection by, 347
 - fluorescence, in comprehensive system to explore p53 mutations, 368
- Insulin-like growth factors, in melanoma progression, 788
- International normalized ratio, local International Sensitivity Index values, and accuracy of reporting of, 683
- International Reference Preparation, 683
- International Sensitivity Index, local values of, and accuracy of international normalized ratio reporting, 683
- Interobserver variability, of Papanicolaou smear diagnosis of atypical glandular cells of undetermined significance, 653
- Intestinal T-cell lymphoma, S68, S113
- Invasion, in discriminating between reactive mesothelial hyperplasia and epithelial mesothelioma, 397
- Ischemia, myocardial, cardiac troponin I, CK-MB, and myoglobin for detecting, in swine model, 70

K

- Ki-1-positive lymphoma, S56
- Ki-67 antigen
 - high MIB-1 (Ki-67) proliferative rate, and bcl-2 positivity, as independent predictive markers for recurrence in prostate carcinoma, 443
 - positivity of, in noncycling cells, 24

- proliferative activity in placentas with hydropic change and hydatiform mole, as detected by immunostaining with proliferating cell nuclear antigen and, 776
- Kleihauer-Betke test, 289

L

- Lamellar body number density, in fetal lung maturity assessment, 723
- Laryngeal neoplasms, recommendations for reporting larynx specimens containing, 137
- LCA antibody, on necrotic tumor tissue, sensitivity and specificity of, 641
- Lecithin-sphingomyelin ratio, in fetal lung maturity assessment, 723
- Legionella* species, polymerase chain reaction for detection of, in respiratory specimens, using commercially available kit, 295
- Leukemia
 - acute
 - genotypic studies of, S25
 - myeloperoxidase detection by three-color flow cytometry and enzyme cytochemistry in classification of, 163
 - acute lymphoblastic
 - CD34⁺ cell clusters predicting impending relapse of, in children receiving maintenance chemotherapy, 313
 - multidimensional flow cytometry for differentiating leukemic from normal lymphoblasts and myeloblasts after therapy for, 84
 - surface immunoglobulin light chain-positive, of FAB L1 or L2 type, 143
 - acute lymphocytic, in infants, myeloperoxidase gene expression in, 575
 - acute myeloid, with monocytic differentiation, CD64, other monocyte-associated antigens, and CD45 gating in subclassification of, 797
 - chronic, S19
 - immunophenotypic and genotypic studies in diagnosis and classification of, S13
 - World Health Organization classification of, S8
- Lewis antigens, 425
- Lipoma, diagnosis of, recent advances in, 660
- Liquid N-geneous HDL-C assay, 495
- Liver disease
 - hepatitis C, TORDJI-22 monoclonal antibody, for antigen detection, 32
 - hepatocellular carcinoma, diagnosis of, by quantitative detection of hepatoma-specific bands of serum γ -glutamyltransferase, 743
 - hepatosplenic $\gamma\delta$ T-cell lymphoma, S49, S104
- Local excision, of ductal carcinoma in situ of breast, cancerization of lobules and atypical ductal hyperplasia adjacent to, 357
- Logarithmic side scatter, vs CD45, in subclassification of acute myeloid leukemias with monocytic differentiation, 797

Lung

congenital adenomatoid malformation of the, histochemical analysis of mucous cells of, and carcinogenesis of pulmonary adenocarcinoma expressing gastric mucins, 450

fetal lung maturity, practice parameter for assessment of, 723

MALT lymphoma of, S136

Lymphocytes

automated cell count in flow cytometry, as tool to assess absolute levels of CD4 in peripheral blood, 321

four-color flow cytometric immunophenotypic determination of peripheral blood CD4⁺ T-lymphocyte counts, 465

Lymphoepithelial sialadenitis, S94

Lymphoid disorders, extranodal, S7, S40

World Health Organization classification of neoplastic diseases of hematopoietic and lymphoid tissues, S8

Lymphoid infiltrates

of the gastrointestinal tract, 471

lymphoid proliferations of the salivary glands, S94

lymphoproliferative infiltrates of the skin, S84

Lymphoma

anaplastic large cell

morphology, phenotype, genotype and anatomic site in defining, S104

pathologic and clinical spectrum of, and correlation with *ALK* gene dysregulation, S56

B-cell. *See* B-cell lymphoma

of breast. *See* Breast cancer

extranodal, S40

cutaneous, S84

MALT-type, S75

peripheral T-cell and NK-cell neoplasms, S46

follicular, with immunoblastic features, in child with

Wiskott-Aldrich syndrome, not associated with Epstein-Barr virus, 95

Hodgkin disease. *See* Hodgkin disease

immunophenotypic and genotypic studies in diagnosis and classification of, S13

and lymphoid infiltrates of the gastrointestinal tract, 471

malignant, in cerebrospinal fluid, multiparameter flow cytometry for detection of, 341

of mucosa-associated lymphoid tissue. *See* Mucosa-associated lymphoid tissue (MALT) lymphoma

non-Hodgkin. *See* Non-Hodgkin lymphoma

primary, of central nervous system, in immunocompetent patients, 607

primary gastric B-cell, trisomy 3 detection in, by chromosome in situ hybridization on paraffin sections, 347

of salivary gland, S94

T-cell. *See* T-cell lymphoma

World Health Organization classification of, S8

Lymphomatoid papulosis

and anaplastic large cell lymphoma, S56

as lymphoproliferative disease, S86

Lymphomatosis, intravascular, S148

M

Mantle cell lymphoma

flow cytometric and immunohistochemical analysis of, 582

genotypic study of, S23

Marginal zone, S75, S94, S126

Maternal testing, postpartum serologic, 287

Mediastinum, diffuse large B-cell lymphoma of, S145

Meeting Minutes

ACLPS annual meeting, 691

ASCP annual business meeting, 253

Melanoma, cutaneous

molecular pathology of malignant, 788

prognostic factors for, 713

recommendations for reporting of tissues removed as part of surgical treatment of, 719

vertical growth phase. *See* Vertical growth melanomas

Melanin, in melanoma progression, 789

Mesothelioma

CD31 immunoreactivity in, 374

desmoplastic malignant, diagnosis of, and distinction from fibrous pleurisy, 135, 191

reactive mesothelial hyperplasia vs, including mesothelioma in situ, 397

MIB-1 monoclonal antibody

and cyclin D1 immunohistochemistry, in ependymomas, 629

high proliferative rate of, and bcl-2 oncoprotein positivity, as independent predictive markers for recurrence in prostate carcinoma, 443

positivity of, in noncycling cells, 24

Microparticle enzyme immunoassay, for digoxin, cross-reactant-induced interference in, 78

Microscopy, telepathology prototype system, featuring static imaging with discrete control of remote microscope, 43

Microspheres, 321

Molar pregnancy, abortus with hydropic changes distinguished from, 776

Molecular genetics, in soft tissue tumor diagnosis, 660

Molecular pathology

as covered in the *Journal*, 279

of malignant melanoma, 788

Monoclonal antibodies. *See also* MIB-1 monoclonal antibody

TORDJI-22 for hepatitis C antigen detection, compared with PCR viral detection, 32

Monoclonal gammopathies, capillary zone electrophoresis for detection of, 248, 503

Monoclonal proteins, serum protein capillary zone electrophoresis and immunotyping by immunosubtraction of, 503

Monocyte-associated antigens, in subclassification of acute myeloid leukemias with monocytic differentiation, 797

Monocytic nodules, in myelodysplastic syndrome, 154

Morphology

in distinguishing benign from malignant extranodal small B-cell proliferations, S119

in extranodal T-cell or NK-cell neoplasm definition, S104

gross features of prostatic adenocarcinoma, correlated with histologic features, 38

- MALT lymphomas, site-specific differences among, S133
 multidimensional flow cytometry for differentiating
 leukemic from normal lymphoblasts and myeloblasts,
 after therapy for acute lymphoblastic leukemia, compared
 with, 84
- Mucins, histochemical analysis of mucous cells of congenital
 adenomatoid malformation of the lung, and carcinogenesis of
 pulmonary adenocarcinoma expressing gastric, 450
- Mucosa-associated lymphoid tissue (MALT) lymphoma, S75
 criteria for distinguishing from non-MALT lymphoma at
 extranodal sites, S126
 extranodal, S40
 genotypic studies of, S23
 Hashimoto thyroiditis as related to, 327
 of salivary gland, S94
 site-specific differences among, S133
- Mycobacterium avium* complex
 disseminated infections in HIV-positive patients, bone
 marrow trephine biopsy specimens, aspirate cultures, and
 blood cultures in detecting, 806
 in patients with fever of unknown origin, bone marrow
 cultures for detection of, 150
- Mycobacterium tuberculosis*, direct amplification tests for
 detection of, evaluation of performance, laboratory application,
 and clinical usefulness of, 301
- Mycosis fungoides, S84
- Myelodysplastic syndrome, nodular lesions of monocytic
 component in, 154
- Myeloma, multiple, S19
- Myeloperoxidase
 detection by three-color flow cytometry and enzyme
 cytochemistry, in classification of acute leukemia, 163
 expression of, in infant acute lymphocytic leukemia, 575
- Myocardial infarction, cardiac troponin I and T alterations in dog
 hearts with, correlation with infarct size, 241
- Myocardial injury, ischemic, cardiac troponin I, CK-MB, and
 myoglobin for detecting, in swine model, 70
- Myoepithelial sialadenitis, S94
- Myofibroblastic tumor, inflammatory, 666
- Myoglobin, for acute ischemic myocardial injury detection, compared
 with cardiac troponin I and CK-MB, in swine model, 70
- N**
- Nasal and nasal-type T-cell lymphoma, S50, S104
- Necrotic tumor tissue, sensitivity and specificity of antibodies on,
 641
- Needle biopsy. *See* Fine-needle aspiration biopsy
- Neoplasms. *See also* sites and types by name
 α -L-fucose as potentially critical molecule in pathologic
 processes, including neoplasia, 425
 of hematopoietic and lymphoid tissues
 immunophenotypic and genotypic studies in diagnosis
 and classification of, S13
- World Health Organization classification of, S8
 malignant, autopsies determining undiagnosed, 210
- News and Notices, 130, 266, 410, 552, 698, 817
- NK-cell neoplasms
 extranodal peripheral, S46
 morphologic features, phenotype, genotype, and anatomic
 site in defining, S104
- Non-Hodgkin lymphoma. *See also* Mucosa-associated lymphoid
 tissue (MALT) lymphoma
 cutaneous agranular CD2⁻ CD4⁺ CD56⁺ lymphoma, 478
 immunophenotypic and genotypic studies in diagnosis and
 classification of, S13, S22
 primary cutaneous lymphomas, S84
 in World Health Organization classification of lymphomas,
 S8
- Nonsteroidal antiinflammatory drug-associated colitis,
 histopathology of, 622
- Nuclear features, in discriminating renal oncocytoma and
 chromophobe renal cell carcinoma, 782
- Nuclear magnetic resonance, α -L-fucose detected in malignant
 cells by, 425
- O**
- Observer variation, in identification of vertical growth phase
 malignant melanoma, 753
- Obstetric patients, serologic testing for, 286
- Ocular adnexa, MALT lymphoma of, S139
- Oleandrin, in cross-reactant-induced interference in digoxin
 monitoring, by microparticle enzyme immunoassay, 78
- Oncocytoma, renal, discriminant nuclear features of chromophobe
 renal cell carcinoma and, 782
- Oncogenes, in malignant melanoma, 789
- Oncoproteins, bcl-2 positivity, and high MIB-1 proliferative rate,
 as independent predictive markers for recurrence in prostate
 carcinoma, 443
- P**
- P21(Waf1/Cip1), Ki-67 positivity in cells expressing, 24
- P21^{WAF1} protein, expression of, in pancreatic adenocarcinoma of
 ductal type, 16
- P53 protein
 in distinguishing desmoplastic malignant mesothelioma
 from fibrous pleurisy, 191
 expression of
 and malignant melanoma, 789
 in pancreatic adenocarcinoma of ductal type, 16
 in primary lymphoma of central nervous system in
 immunocompetent patients, 607
 and prostate carcinoma recurrence, 443
 Ki-67 positivity, in cells expressing, 24

- mutations
 - in bladder washings and histologic specimens, 647
 - comprehensive system to explore, 368
 - P80 antibody, in abnormal *ALK* gene expression, S56
 - Pagetoid reticulis, S87
 - Pancreas, ductal adenocarcinoma of, p53, p21^{WAF1}, and TGF- β 1 expression in, 16
 - Papanicolaou smear, diagnosis of atypical glandular cells of undetermined significance, interobserver variability of, 653
 - Paraffin-embedded tissue
 - chromosome in situ hybridization, for detection of trisomy 3 in primary gastric B-cell lymphoma on, 347
 - flow cytometric DNA analysis with cytokeratin gating for formalin-fixed deparaffinized breast cancer nuclei, 227
 - Partial-draw vacutainer tube, vs full-draw tubes, 184
 - Partial hydatiform moles, 776
 - Peyer's patch, S126, S134
 - Phosphatidylglycerol assessment, for fetal lung maturity, 723
 - Placentas, with hydatiform mole and hydropic change,
 - proliferative activity in, as detected by Ki-67 and proliferating cell nuclear antigen immunostaining, 776
 - Platelet antibodies, in EDTA-dependent pseudothrombocytopenia, binding to platelet membrane glycoprotein IIb, 178
 - Platelet membrane glycoprotein IIb, IgG platelet antibodies in EDTA-dependent pseudothrombocytopenia binding to, 178
 - Pleomorphic hyalinizing angiectatic tumor, 660
 - Polymerase chain reaction
 - for immunoglobulin heavy chain gene rearrangement
 - characterization of lymphoid infiltrate in Hashimoto thyroiditis by, 327
 - for lymphoid infiltrates of the gastrointestinal tract, 471
 - Legionella* species detection by, in respiratory specimens, using commercially available kit, 295
 - reverse transcriptase, TORDJ-22 monoclonal antibody detection of hepatitis C antigen compared with, 32
 - single-cell, of monoclonal IgH gene rearrangement in microdissected nodules from nodular sclerosis Hodgkin disease, 599
 - Polymerase chain reaction-single-strand conformation polymorphism
 - in comparative analysis of p53 mutations in bladder washings and histologic specimens, 647
 - in comprehensive system to explore p53 mutations, 368
 - Postmortem, undiagnosed causes of death determined by, 210
 - Postpartum prophylaxis, Rh immune globulin in, 284
 - Pregnancy
 - fetal lung maturity assessment, 723
 - fetomaternal hemorrhage occurring with termination of, 284
 - molar, abortus with hydropic changes distinguished from, 776
 - Prenatal assessment, serologic testing in, 286
 - Proliferating cell nuclear antigen, proliferative activity in placentas with hydropic change and hydatiform mole, as detected by immunostaining with Ki-67 and, 776
 - Proliferation. *See* Cell proliferation
 - Proliferation markers, Ki-67 positivity in noncycling cells, 24
 - Proopiomelanocortin, in melanoma progression, 789
 - Prostate cancer
 - adenocarcinoma
 - gross morphologic features correlated with histologic features, 38
 - histology of radiation therapy effect on, as assessed by needle biopsy after brachytherapy boost, 765
 - thrombomodulin expression in, immunostaining for, 385
 - carcinoma, bcl-2 oncoprotein positivity and high MIB-1 proliferative rate, as independent predictive markers for recurrence in, 443
 - Prostatectomy, tissue specimens from, for research, 1, 4
 - Prostate specific antigen, in follow-up to radiation therapy for prostate adenocarcinoma, 765
 - Prothrombin time
 - and citrate volume adjustment, for patients with severe anemia, 106
 - cross-Canada survey of testing of, 683
 - Proton pump inhibitor-associated gastric polyps, 615
 - Proximal type epithelioid sarcoma, 662
 - Pseudolymphoma, S40, S80, S84
 - Pseudothrombocytopenia, EDTA-dependent, IgG platelet antibodies in, binding to platelet membrane glycoprotein IIb, 178
- ## R
- Radial growth melanomas, 713, 753
 - Radiation therapy
 - for cancerization of lobules and atypical ductal hyperplasia, adjacent to ductal carcinoma in situ of breast, 357
 - for prostate adenocarcinoma, histology of effect of, as assessed by needle biopsy after brachytherapy boost, 765
 - Reflux esophagitis, 219
 - Remote diagnosis, telepathology prototype system for, featuring static imaging with discrete control of remote microscope, 43
 - Renal cell carcinoma, chromophobe, discriminant nuclear features of renal oncocytoma and, 782
 - Research, tissue specimens for, from prostatectomies, 1, 4
 - Respiratory distress syndrome, 723
 - Restenosis, in saphenous bypass grafts, after long-term stent implantation, pathology of, 378
 - Retinoblastoma proteins, 443
 - Revised European American Classification of Lymphoid Neoplasms, S8
 - Rh immune globulin, ASCP practice parameter for use of, 281
 - RNA screening, prostatectomy tissue for research in, 1, 4
- ## S
- S100 antibody, on necrotic tumor tissue, sensitivity and specificity of, 641

Salivary glands
 lymphoid proliferations of, S94
 MALT lymphoma of, S136
 Saphenous bypass grafts, pathology of restenosis in, after long-term stent implantation, 378
 Sarcoma, soft tissue
 diagnosis of, recent advances in, 660
 fine-needle aspiration biopsy for diagnosis of, 50
 Sentinel node biopsy, for metastatic melanoma, 713
 Serum protein electrophoresis
 capillary zone electrophoresis compared with, 248
 in monoclonal gammopathy identification, 503
 Sézary syndrome, S84
 Shake test, for fetal lung maturity assessment, 724
 Silver-labeled nucleolar organizer regions, in mesothelioma diagnosis, 397
 Site-specific differences
 among extranodal aggressive B-cell neoplasms, S144
 among MALT lymphomas, S133
 Sjögren's syndrome, S94, S133
 Skin
 agranular CD2⁻ CD4⁺ CD56⁺ lymphoma of, 478
 cutaneous melanoma. *See* Melanoma, cutaneous
 lymphoproliferative infiltrates of, S84
 MALT lymphomas of, S139
 primary B-cell lymphomas of, S146
 Small lymphocytic lymphoma, flow cytometric and immunohistochemical analysis of, 582
 Soft tissue tumors
 diagnosis of, recent advances in, 660
 sarcoma, fine-needle aspiration biopsy for diagnosis of, 50
 Solid organ transplantation, autologous blood donation, for patients who have undergone, 102
 S-phase fraction, 2-parameter cytokeratin-DNA flow method for measurement of, 227
 Sputum, polymerase chain reaction detection of *Legionella* species in specimens of, using commercially available kit, 295
 Squamous cell carcinoma
 of larynx, recommendations for reporting specimens containing laryngeal neoplasms, 137
 thrombomodulin expression in, immunostaining for, 385
 Stenting, coronary, pathology of restenosis in saphenous bypass grafts, after long-term stent implantation, 378
 Stomach, MALT lymphoma of, S135
 Subcutaneous panniculitis-like T-cell lymphoma, S48, S88, S104
 Surface immunoglobulin, expression of, in acute lymphoblastic leukemia, 143
 Surface tension, of amniotic fluid, for fetal lung maturity assessment, 723
 Surgical pathology, recommendations for reporting of tissues removed as part of treatment of cutaneous melanoma, 719
 Syringolymphoid hyperplasia with alopecia, S87

T

T-cell lymphoma
 vs B-cell lymphoma, S13
 cutaneous, S84
 extranodal, S40
 intestinal, S68, S113
 morphologic features, phenotype, genotype, and anatomic site in defining, S104
 peripheral, S46
 World Health Organization classification of, S8
 T-cell pseudolymphoma, S84
 T-cell subsets
 automated cell count in flow cytometry, 321
 in extranodal T/NK neoplasms, S107
 four-color flow cytometric immunophenotypic determination of peripheral blood CD4⁺ T-lymphocyte counts, 465
 Telepathology, prototype system for, featuring static imaging with discrete control of remote microscope, 43
 Terminal deoxynucleotidyl transferase
 expression of, in acute lymphoblastic leukemia, 143
 stains for predicting relapse in children with acute lymphoblastic leukemia, receiving maintenance chemotherapy, 313
 TEST 1 automated system, for erythrocyte sedimentation rate measurement, 334
 TGF- β 1 protein, expression of, in pancreatic adenocarcinoma of ductal type, 16
 Thrombomodulin, expression of, in transitional cell carcinoma, 385
 Thrombophilia, in patients with personal or family history of thrombosis, results of diagnostic studies of, 673
 Thrombosis, thrombophilia in patients with personal or family history of, results of diagnostic studies of, 673
 Thyroiditis, Hashimoto. *See* Hashimoto thyroiditis
 Thyroid lesions
 frozen section vs fine-needle aspiration biopsy for diagnosis of, 423
 intraoperative cytology and frozen sections compared, for diagnosis of, 456
 MALT lymphoma, S137
 Tissue artifacts, from biopsy bags, 224
 Tissue specimens. *See also* Paraffin-embedded tissue
 gross morphologic features of prostatic adenocarcinoma, correlated with histologic features, 38
 from prostatectomies, for research, 1, 4
 TORDJI-22 monoclonal antibody, for hepatitis C antigen detection, compared with PCR viral detection, 32
 Transforming growth factor, in melanoma progression, 788
 Transfusion
 autologous, for recipients of solid organ transplants, 102
 of Rh-positive blood, 285
 Transplantation, solid organ, autologous blood donation, for patients who have undergone, 102
 Trisomy 3, in primary gastric B-cell lymphoma, chromosome in situ hybridization for detection of, 347

Tubal ligation, Rh immune globulin use after, 285
 Tumor-associated carbohydrate antigens, 428
 Tumor markers, for malignant melanoma, 788
 Tumor suppressor genes, in malignant melanoma, 789

V

Vascular neoplasms, borderline, 664
 Ventricles, cardiac troponin I and T alterations in dog hearts with myocardial infarction, correlation with infarct size, 241
 Vertical growth melanomas
 identification of, a study of interobserver agreement, 753
 prognostic factors for, 714

W

Wegener's granulomatosis, cytopathology in diagnosis of, 10
 Westergren ESR method, TEST 1 automated system compared with, 334
 Wiskott-Aldrich syndrome, follicular lymphoma with immunoblastic features in child with, not associated with Epstein-Barr virus, 95
 World Health Organization, classification of neoplastic diseases of hematopoietic and lymphoid tissues, S8

CLINICAL PATHOLOGIST

Children's Hospitals and Clinics-Minneapolis and St. Paul has an opening for a clinical pathologist. The successful candidate will be board certified in CP or AP/CP with at least 5 years of experience in directing clinical laboratory services. Interest and expertise in pediatric hematology, chemistry or microbiology is highly desirable. In addition to administrative responsibilities, the successful candidate will serve as a comprehensive resource for clinical laboratory consultations involving pediatric inpatients and outpatients.

The clinical laboratories at Children's perform approximately 400,000 tests annually. The position is available January 1999. Please submit a curriculum vitae, statement of area of expertise and interest, and names of three references to: Susan C. Simonton, M.D., Laboratory Medical Director, Children's-St. Paul, 345 North Smith Avenue, St. Paul, MN 55102.

